

**REMARKS/ARGUMENTS**

Reconsideration of this application in light of the foregoing amendments and following comments is courteously solicited.

For the convenience of the Examiner, Applicant sets forth hereinbelow the basis for the claimed subject matter of new claims 15-22 with reference to the application as originally filed.

<u>Claim</u>	<u>Basis for Amendment</u>
15	claims 1, 4, 6, and 14; specification, page 12, lines 21-25; page 13, line 25; page 14, line 4; Fig. 4;
16	claim 7;
17	claim 8;
18	claim 9;
19	claim 10;
20	claim 11;
21	claim 12;
22	specification, page 14, lines 4-6; page 14, lines 17-21.

With reference to new independent claim 15, the light permeable fluorescent cover of the present invention as claimed in independent claim 15 has the following features:

1. A fluorescent material (7) in a light permeable fluorescent cover (6) has 0.4 to 0.8 manganic content ratio to produce green and red lights upon excitation by a blue light of a light emitting diode so as to totally mix blue, green and red lights into a whitish or white light to be irradiated to outside; and
2. Fluorescent material (7) comprises at least one of fluorescent lanthanoid aluminates activated with

manganese as shown by at least one selected from chemical formulae:  $\text{LaAl}_{11}\text{O}_{18}:\text{Mn}^{2+}$ ;  $\text{La}_2\text{O}_311\text{Al}_2\text{O}_3:\text{Mn}^{2+}$ ;  $\text{La}_{1-x}\text{Al}_{11(2/3)+x}\text{O}_{19}:\text{Mn}^{2+}$  ( $0.1 \leq x \leq 0.99$ );  $(\text{La}, \text{Ce})\text{Al}_{11}\text{O}_{19}:\text{Mn}^{2+}$ ; and  $(\text{La}, \text{Ce})\text{MgAl}_{11}\text{O}_{19}:\text{Mn}^{2+}$ .

The light permeable fluorescent cover according to the present invention restricts manganic concentration to 0.4 to 0.8 in lanthanum (La) aluminate-manganese fluorescent material to adjust content ratio of emitted green and red lights as required like colorific tone or balance close to external light as sunlight.

U.S. 6,252,254 discloses a light-emitting device that comprises a blue-emitting LED 12 covered with a layer 14 containing green- and red-emitting phosphors to produce white light combining blue, green and red lights. These green- and red-emitting phosphors have compositions that comprise at least one compound selected from the group consisting of  $\text{YBO}_3:\text{Ce}^{3+}, \text{Tb}^{3+}$ ;  $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}, \text{Mn}^{2+}$ ;  $(\text{Sr}, \text{Ca}, \text{Ba})(\text{Al}, \text{Ga})_2\text{S}_4:\text{Eu}^{2+}$ ;  $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}\text{Bi}^{3+}$ ;  $\text{YVO}_4:\text{Eu}^{3+}, \text{Bi}^{3+}$ ;  $\text{SrS}:\text{Eu}^{2+}$ ;  $\text{SrY}_2\text{S}_4:\text{Eu}^{2+}$ ;  $\text{CaLa}_2\text{S}_4:\text{Ce}^{3+}$ ; and  $(\text{Ca}, \text{Sr})\text{S}:\text{Eu}^{2+}$ .

U.S. 6,414,426 indicates a fluorescent lamp that comprises a phosphor made up of  $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}$ ;  $(\text{Sr}, \text{Ca}, \text{Ba})_{10}(\text{PO}_4)_6\text{Cl}_2:\text{Eu}$ ;  $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}, \text{Mn}$ ;  $\text{Sr}_4\text{Al}_{14}\text{O}_{25}:\text{Eu}$ ; or  $\text{Ce}(\text{Mg}, \text{Zn})\text{Al}_{11}\text{O}_{19}:\text{Mn}$ .

Neither of the cited references show or suggest the present invention's features as claimed in new claim 15, namely, "restriction to 0.4 to 0.8 manganic content ratio" and "fluorescent lanthanum aluminates activated with manganese shown by the specific chemical formulae".

In light of the foregoing comments, it is submitted that all of the claims as pending patentably define over the art of record and the early issuance of a formal notice of allowance is respectfully requested.

An earnest and thorough attempt has been made by the undersigned to resolve the outstanding issues in this case and place same in condition for allowance. If the Examiner has any questions or feels that a telephone or personal interview would be helpful in resolving any outstanding issues which remain in this application after consideration of this amendment, the Examiner is courteously invited to telephone the undersigned and the same would be gratefully appreciated.

It is submitted that the claims as amended herein patentably define over the art relied on by the Examiner and early allowance of same is courteously solicited.

If any fees are required in connection with this case, it is respectfully requested that they be charged to Deposit Account No. 02-0184.

Respectfully submitted,

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